

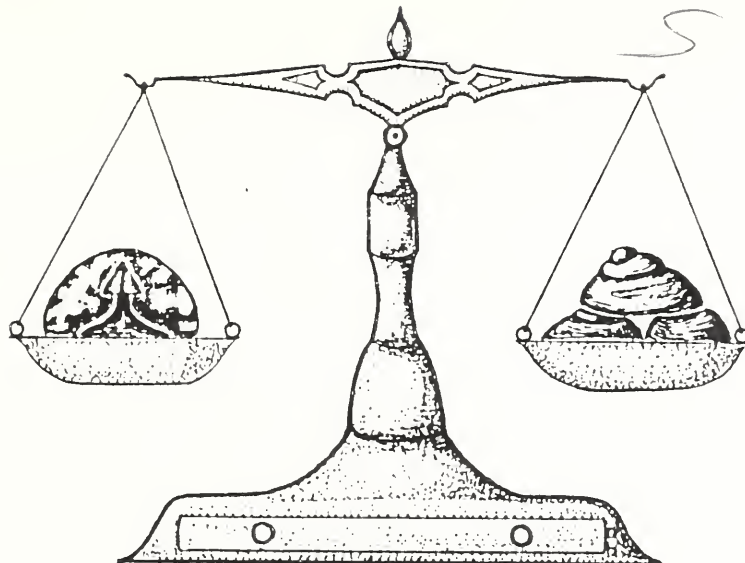
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# THE SCALE



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## EDITOR'S COMMENTS

One problem with "Scale" is that it is not serving the "news" role. I rarely get information from you for items for "Scale." Please write to me with information about yourself or about what you are doing. If you have been collecting recently, have made some interesting observations, need information, etc., please write this information down and send it to me. It will be included in next year's edition.

## Participants of the VIth ISSIS

Krakow, 22.11.1988

Dear Colleagues,

You may be interested in the organizing of the VIth International Symposium of Scale Insect Studies; there are a few comments in addition to the information provided in the first circular (copy included).

1. The first week in September was selected as the most suitable time for the meeting by the participants of the VIth ISSIS in Portici. Some have asked to change the date to the first week of August (because teaching starts in September in some countries). Because of this, we propose the first week of August. People who cannot attend the Symposium at this time are asked to inform the organizers. We shall try to settle and present a definite date in the second circular.

2. The international ISSIS Committee, as presented in the first circular, consists of people who have organized or are willing to organize other ISSIS sessions. The Committee was not set up to represent the broad array of activity in scale insect studies.

3. Polish entomologists who agreed to participate in the organizing of the VIth ISSIS form the National Organizing Committee.

4. Professor Dr. Michael Kosztarab is the engine or spiritus movens of the symposia, thus he has been chosen to be the President of the VIth ISSIS.

5. The fact that there is "no registration fee" may be misleading. It is not our intention to suggest that "we have enough money", this is not the case. Nobody knows what the circumstances will be in 1990 in Poland. For people who are interested in low costs, we will arrange for student housing; those who prefer hotels, will have to make accommodations for themselves. In any case, we shall do the best that we can to make your visit a useful and enjoyable one.

6. The presentation form of the papers has not been settled. Personally, I would prefer only plenary sessions. If there are too many papers, the smaller ones could be presented in a shorter time frame or as posters. All would have the same status in the final publication.

7. Discussion is very important, but many of us have trouble with English. Something should be done to stimulate discussion. Your suggestions please.

8. About 40 entomologists answered the first circular; about 30 plan to attend the Symposium. All papers are exciting (e.g. "Four-winged fossil ancestors of scale insects", "Why are there so few scale insects", "Where do we stand with taxonomic studies on males", "Why work on scale insects", "Karyological relationships among scale insects", "Adaptative strategies of protective systems", etc. etc.). Please, do not hesitate to discuss ideas. ISSIS is the proper forum for speculation.

9. In my opinion, there is a serious gap in our knowledge concerning the relationship of scale insects with other Hemiptera, and a much more serious gap is our seeming lack of interest in this question. To this point, non-coccidologists are the ones who have attempted to place the scale insects in the hemipteran system. Because scale insects are a difficult group, and because we know more about them than anyone else, we should cooperate to assist with finding solutions to this problem.

10. I have received many valuable suggestions from potential participants in this symposium. All letters and questions will be answered individually.

11. Please do not forget to mail the preregistration form attached. Further information will be provided only to those who answer the first circular.

Jan Koteja  
Secretary

Vith INTERNATIONAL SYMPOSIUM OF SCALE INSECTS STUDIES  
AUGUST 1990

Institute of Applied Soology  
ACADEMY OF AGRICULTURE  
al. Mickiewicza 24  
30-059 Krakow, Poland

F I R S T C I R C U L A R

DEAR COLLEAGUE,

It is our pleasure to invite you to take part in the Vith International Symposium of Scale Insect Studies which will be held in Cracow in the first week of August 1990.

MAIN TOPICS: Coccid-homoperan relationships, phylogeny and taxonomic techniques, ecology, advances in plant protection, neglected fields (chemistry, galling, symbionts etc.).

ROUND TABLE DISCUSSION: Catalogues, collections, nomenclature

TOURISTIC TRIPS: Pieniny and Tatra Mts, Wieliczka Salt Mine.

PAPERS will be published in concise form.

EXPENSES: Related to selected accommodation standard. No registration fee.

HONORARY PRESIDENT: Michael KOSZTARAB

INTERNATIONAL ISSIS COMMITTEE: Frenc KOZAR (Hungary), Antonio TRANFAGLIA (Italy), Jan KOTEJA (Poland), Yair BEN-DOV (Israel), Imre FOLDI (France), Douglas J. WILLIAMS (UK), Michael KOSZTARAB (USA)

NATIONAL ORGANIZING COMMITTEE: Irena BIELENIN, Anna DZIEDZICKA, Jan KOTEJA (secretary), Bozena LAGOWSKA, Barbara OGAZA, Elzbieta POSIADLO, Maria ROSCISZEWSKA

would you like to receive further information, please fill and mail the enclosed inscription form by August 1989.

Jan Koteja  
secretary

Vith INTERNATIONAL SYMPOSIUM OF SCALE INSECTS STUDIES  
CRACOVIA AUGUST 1990

i n s c r i p t i o n

Surname \_\_\_\_\_ Name \_\_\_\_\_

Institution \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

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Provisional title of paper and/or poster \_\_\_\_\_

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Questions and suggestions \_\_\_\_\_

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date \_\_\_\_\_ SIGNATURE \_\_\_\_\_

## NEWS ON ISSIS-VI IN POLAND

Extracted from letters received from  
Dr. Jan Koteja, Institute of Applied Zoology  
Academy of Agriculture, al. Mickiewicza 24  
30-059 Krakow, Poland

Jan Koteja, who is organizing ISSIS-VI, is optimistic about participation in the meeting because by November 1988 there were already 35 people who had expressed interest in attending. One of the titles submitted should surely spark our curiosity because it deals with four-winged fossilized ancestors of scale insects. Dr. Shcherbakov from Moscow will give that paper. Speakers are encouraged to consider their topics for poster presentation whenever this is practical. We found this method to be an excellent way of presenting data, especially for those who are not yet masters of the official language, or who have papers of regional significance, surveys, or papers on descriptive taxonomy.

Please don't forget to send your preregistration form and/or wishes to Jan Koteja for the next International Symposium of Scale Insects Studies (ISSIS-VI) so he can include you among those receiving more information on the 1990 symposium in Krakow. He wanted to find out if it would be acceptable to you if the meeting is held during the first or second week in August 1990 instead of in September. Please send him your wishes now if you have problems with the date change proposed by some of us who will have teaching obligations in September.

Jan is willing to send personal invitations to those who may need them for obtaining exit visas or official approval for participating. For such a letter please send your informal request to him with the proposed title or topic of your presentation.

Good news! The obligatory currency exchange for foreign visitors in Poland was discontinued as of January 1, 1989.



North American workers are requested to respond on the questionnaire below about their intentions to participate in the 10th North American Sternorrhyncha Symposium (formerly called Coccidology Symposium). The last symposium was in Boston during the Entomological Society of America 1987 annual meeting. If we want to have the 10th symposium three years after the last one, then the next would be during December 2-6, 1990, in New Orleans, which would make it too close to the international meeting (ISSIS-VI). Therefore it is proposed that we organize it in 1991 (location unknown). Please select your preference below.

PLEASE NOTE: We have NEW PHONE NUMBERS because our university has installed its own phone system. Dr. Kosztarab's new number is: 703/231-6773. To reach any of the graduate students, Karen Veilleux, or Mary Rhoades, call 231-6974.

### My Response on the 10th Coccidology Symposium

I have no preference for the year \_\_\_\_\_.

I prefer the symposium be in the year \_\_\_\_\_.

I intend to give a 10 \_\_, 20 \_\_, 30 \_\_ minute oral presentation;  
a poster presentation \_\_\_\_.

My tentative topic or title is: \_\_\_\_\_

\_\_\_\_\_

It is too early to give my topic/title. \_\_\_\_\_

I suggest for consideration the following major topic(s) for a theme:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I propose the following person(s) for invited speakers, for the following topics:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

My name, address and phone number:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Return to: Michael Kosztarab, Dept. of Entomology, VPI&SU,  
Blacksburg, VA 24061-0319



# PROGRESS REPORT FROM VIRGINIA TECH COCCIDOLOGY LABORATORY

Michael Kosztarab and Mary Rhoades  
Dept. of Entomology, Virginia Polytechnic Institute  
and State University, Blacksburg, VA 24061

There are two main research projects underway now in our laboratory--a worldwide revision of the Dactylopiidae, by Gema Perez-Guerra, a PhD student from the Canary Islands, and a revision of the Sphaerococcinae (legless mealybugs) of the world, by Harlan Hendricks, a PhD student who recently finished his master's degree at Auburn University. Studies were completed earlier in our lab on the adult males of Sphaerococcinae (Afifi and Kosztarab, 1967) and the nymphs of *Antonina* and *Chaetococcus* (Yang and Kosztarab, 1967), so it is time after 22 years have elapsed to complete the revision of this group. Since our last research projects on that group we have accumulated many nymphs of Sphaerococcinae which we intend to describe separately. Please help these three projects by sending us on loan your available determined or undetermined specimens, either mounted or unmounted.

We also continue with the indexing and cataloging of the world scale insect and aphid literature supported by the U.S. Dept. of Agriculture, Systematic Entomology Lab. Akke Hulburt was in charge of this project for three years, but now Karen Veilleux is taking over her work, and she is requesting that copies of publications dealing with scale insects be sent to our laboratory. We prefer checking the original papers or reprints before including them in a fourth supplement to the Coccoidea Bibliography.

Two of our major publications were printed in 1988, the Third Supplement to the Selected Bibliography to the Coccoidea (1970-1985), and Scale Insects of Central Europe. The first is free on exchange or at a cost of \$6.00; the second came out in two editions, one for the west (Junk Publisher), and one for socialist countries (Akademia Publishers). A third publication, Everything Unique and Unusual about Scale Insects, is available from the first author. It was written with the intention of popularizing scale insects among biologists, and hopefully, making some converts to our profession to compensate for the shrinking human resources in the field. Retirements are effecting our "cadre," Z. K. Hadzibejli, E. M. Tereznikova, and D. J. Williams already retired, while Victor Blackburn (USDA Plant Quarantine) is scheduled for 1989. Also, two other researchers, J. O. Howell and D. R. Miller, were lost, at least partly and/or temporarily, through administrative responsibilities. Let's make sure that in the future vacated positions will be filled with coccidologists, and that some of us teaching at universities and/or working on scale insects at research institutions find ways of training replacements. We can anticipate more pressure for surveys and scale insect species determinations as we enter a new era of a global biodiversity crisis.

Our next research contribution is scheduled to be printed by summer 1989. It is the revision of the North American *Chionaspis* and will include two works, one on adult females and the other on the adult males. The format will be similar to the Kermesidae revision published in 1985.

Our laboratory is serving for the second year as headquarters for the Center for Systematics Collections of this university. Because of this, we are actively involved in promoting the establishment of a museum to properly house the natural history collections here. They are managed under eight separate curators and include 907,000 birds, mammals, insects, fungi, vascular plants, minerals, and fossil animals and plants. If all goes as planned, money will be available in 1989 to begin a computer data base for each of the collections.

The long awaited dream project of the first author for the initiation of a National Biological Survey (NABIS) in the United States is under consideration in the Congress as part of the bill, House Resolution 1268, entitled "National Biological Diversity Conservation and Environmental Research Act." It passed the subcommittee on Natural Resources and will be voted on in the House Science Committee this year. Anyone in favor of such legislation should encourage his/her U.S. Representative and/or Senators to support this bill and serve as co-sponsor for it. A 25-page printed article on this subject is available from the first author.

RECENT LITERATURE  
by Douglass Miller  
Systematic Entomology Laboratory, PSI  
Agricultural Research Service, USDA, Beltsville, Maryland, USA

This year we have begun to bring the "Scale" into the realm of the modern world. The following list is the first time that we have used our bibliography data analyses program. Perhaps in the future, when several years of data are included, this information will have broader application than inclusion in "Scale." Therefore, I would be pleased to have corrections and comments. We also have included key words for those titles that do not provide clear evidence of the scale insect discussed in the article.

I would like to thank Mrs. Diane Lathrop for entering the data and preparing the following word processing document.

The following publications are those received since the last "Scale" was sent out in December 1986. The list also includes references gathered from a "current awareness" computerized literature search provided by the U.S. Department of Agriculture. If you are aware of papers published in 1987-1988 that are not included in this issue or the previous one, please let me know. Please continue to send reprints of your papers for assurance of inclusion in the "Scale."

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The Coccoidea Slide Collection, Canadian National  
Collection, Ottawa

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The Coccoidea slide collection in the Canadian National Collection of Insects and Arachnids is relatively small, consisting of approximately 1600 slides representing 185 species. Only about a third of the material in the collection has been collected in Canada. Only W. R. Richards and J. H. H. Phillips have described new scale species from Canada. There has been no serious attempt at a survey of the scale insects of Canada. It is hoped that, beginning with the compilation of this list, there will be a more systematic study of the scale insect fauna of this country.

The number of slides of each species is listed in the column on the right. If holotype and/or paratype material is present this is designated by an "H" and a "P" respectively. For holotypes, the CNC type number is given in brackets. Where collections in Canada are represented, this is noted by the following abbreviations: A (Alberta), BC (British Columbia), M (Manitoba), NB (New Brunswick), NS (Nova Scotia), NW (Northwest Territories), O (Ontario), P (Prince Edward Island), Q (Quebec), S (Saskatchewan), Y (Yukon). Obvious misidentifications have been corrected but there has been no serious attempt to correct the identifications of difficult groups.

## ACLERIDIDAE

<u>Aclerda</u>	<u>californica</u>	Ehrhorn	2
(O)			

## ASTEROLECANIIDAE

<u>Asterolecanium</u>	<u>arapidis</u>	(Signoret)	1
<u>Asterolecanium</u>	<u>bambusae</u>	(Boisduval)	2
<u>Asterolecanium</u>	<u>epidendri</u>	(Bouché)	1
<u>Asterolecanium</u>	<u>miliaris</u>	(Boisduval)	1
<u>Asterolecanium</u>	<u>pustulans</u>	(Cockerell)	1
<u>Asterolecanium</u>	<u>variolosum</u>	(Ratzeburg)	4 (O)

## CEROCOCCIDAE

<u>Mycetococcus</u>	<u>ehrnorni</u>	(Cockerell)	5
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## COCCIDAE

<u>Ceroplastes</u>	<u>africanus</u>	Green	3
<u>Ceroplastes</u>	<u>ceriferus</u>	(Fabricius)	2
<u>Ceroplastes</u>	<u>cirripediformis</u>	Comstock	1
<u>Ceroplastes</u>	<u>floridensis</u>	Comstock	1
<u>Ceroplastes</u>	<u>irregularis</u>	Cockerell	1
<u>Ceroplastes</u>	<u>rubens</u>	Maskell	3
<u>Ceroplastes</u>	<u>rusci</u>	(Linnaeus)	2
<u>Ceroplastodes</u>	<u>cajani</u>	(Maskell)	3
<u>Coccus</u>	<u>hesperidum</u>	Linnaeus	58
(BC, O, Q)			
<u>Coccus</u>	<u>pseudomagnoliarum</u>	(Kuwana)	11
<u>Coccus</u>	<u>viridis</u>	(Green)	1
<u>Cryptes</u>	<u>paccatus</u>	(Maskell)	3

<u>Eriopeltis</u>	<u>festucae</u>	(Fonscolombe)	17
(O)			

<u>Eucalymnatus</u>	<u>tessellatus</u>	(Signoret)	4
<u>Eulecanium</u>	<u>caryae</u>	(Fitch)	4 (O)
<u>Eulecanium</u> (Q)	<u>cerasorum</u>	(Cockerell)	13
<u>Eulecanium</u> (BC)	<u>tiliae</u>	(Linnaeus)	48
<u>Parthenolecanium</u> (NS,O)	<u>cerasifex</u>	(Fitch)	130
<u>Parthenolecanium</u> 7 (O)	<u>putmani</u>	(Phillips)	1H (8643) 9P
<u>Macropulvinaria</u>	<u>jacksoni</u>	(Newstead)	1
<u>Mesolecanium</u>	<u>nigrofasciatum</u>	(Pergande)	9 (O)
<u>Paralecanium</u>	<u>expansum</u> var <u>metallicum</u>	Green	1
<u>Parasaissetia</u>	<u>nigra</u>	(Nietner)	2
<u>Parthenolecanium</u> (A,BC,O)	<u>corni</u>	(Bouché)	72
<u>Parthenolecanium</u>	<u>fletcheri</u>	(Cockerell)	1
<u>Parthenolecanium</u>	<u>persicae</u>	(Fabricius)	10
<u>Parthenolecanium</u> (NB)	<u>quercifex</u>	(Fitch)	4
<u>Philephedra</u>	<u>broadwayi</u>	(Cockerell)	2
<u>Physokermes</u>	<u>piceae</u>	(Schrank)	1
<u>Protopulvinaria</u>	<u>mangiferae</u>	(Green)	3
<u>Protopulvinaria</u>	<u>pyriformis</u>	(Cockerell)	1
<u>Pulvinaria</u>	<u>amygdali</u>	Cockerell	1
<u>Pulvinaria</u> 15P (NW)	<u>ellesmerensis</u>	Richards	1H (8476)
<u>Pulvinaria</u>	<u>floccifera</u>	(Westwood)	3
<u>Pulvinaria</u> (BC,O)	<u>innumerabilis</u>	(Rathvon)	20
<u>Pulvinaria</u> (BC)	<u>occidentalis</u>	Cockerell	2
<u>Pulvinaria</u>	<u>psidii</u>	Maskell	3
<u>Pulvinaria</u>	<u>peninsularis</u>	Ferris	1
<u>Pulvinaria</u> (O,S)	<u>vitis</u>	(Linnaeus)	14
<u>Saissetia</u>	<u>coffeae</u>	(Walker)	13
<u>Saissetia</u>	<u>oleae</u>	(Olivier)	7
<u>Toumeyella</u> (M,O)	<u>parvicornis</u>	(Cockerell)	75
<u>Toumeyella</u>	<u>pini</u>	(King)	4 (O)
<u>Toumeyella</u>	<u>undetermined</u>		15

<u>Vinsonia</u>	<u>stellifera</u>	(Westwood)	1
<u>DACTYLOPIIDAE</u>			
<u>Dactylopius</u>	<u>coccus</u>	Costa	8
<u>Dactylopius</u>	<u>confusus</u>	(Cockerell)	1
<u>DIASPIDIDAE</u>			
<u>Abgrallaspis</u>	<u>cyanophylli</u>	(Signoret)	5
<u>Aonidia</u>	<u>lauri</u>	(Bouché)	2
<u>Aonidiella</u>	<u>aurantii</u>	(Maskell)	6 (S)
<u>Aonidiella</u>	<u>citrina</u>	(Coquillet)	5
<u>Aonidiella</u>	<u>orientalis</u>	(Newstead)	1
<u>Aspidaspis</u>	<u>densiflorae</u>	(Bremner)	4
<u>Aspidiella</u>	<u>hartii</u>	(Cockerell)	1
<u>Aspidiotus</u>	<u>densiflorae</u>	(Bremner)	4
<u>Aspidiotus</u>	<u>destructor</u>	Signoret	5
<u>Aspidiotus</u>	<u>nerii</u>	Bouché	19
<u>Aspidiotus</u>	<u>spinosus</u>	Comstock	9
<u>Aulacaspis</u>	<u>rosae</u>	(Bouché)	8 (O)
<u>Carulaspis</u>	<u>juniperi</u>	(Bouché)	1
<u>Carulaspis</u>	<u>minima</u>	(Targioni Tozzetti)	1
<u>Carulaspis</u> (BC,O)	<u>visci</u>	(Schrank)	2
<u>Chentraspis</u>	<u>uniloba</u>	(Maskell)	1
<u>Chionaspis</u>	<u>corni</u>	Cooley	3 (O)
<u>Chionaspis</u> (A,M,S)	<u>furfura</u>	(Fitch)	20
<u>Chionaspis</u> (NB,O)	<u>lintneri</u>	Comstock	13
<u>Chionaspis</u>	<u>ortholobis</u>	Comstock	3
<u>Chionaspis</u> (BC,O,Q,S)	<u>pinifoliae</u>	(Fitch)	26
<u>Chionaspis</u>	<u>salicisnigrae</u>	(Walsh)	9 (O)
<u>Chrysomphalus</u> (Q)	<u>aonidum</u>	(Linnaeus)	13
<u>Chrysomphalus</u>	<u>dictyospermi</u>	(Morgan)	7 (Q)
<u>Clavaspis</u>	<u>ulmi</u>	(Johnson)	1
<u>Diaspidiotus</u>	<u>aesculi</u>	(Johnson)	7
<u>Diaspidiotus</u> (M,O,S)	<u>ancylus</u>	(Putnam)	29
<u>Diaspidiotus</u>	<u>ehrnorni</u>	(Coleman)	1 (S)



<u>Diaspis</u>	<u>boisduvalii</u>	Signoret	2
<u>Diaspis</u>	<u>echinocacti</u>	(Bouché)	1
<u>Diaspis</u>	<u>manzanitae</u>	(Whitney)	1
<u>Duplaspidiotus</u>	<u>tesseratus</u>	(Grandpré & Charmoy)	1
<u>Dynaspidiotus</u>	<u>britannicus</u>	(Newstead)	3
<u>Epidiaspis</u>	<u>leperii</u>	(Signoret)	2
<u>Fiorinia</u>	<u>fioriniae</u>	(Targioni Tozzetti)	4
<u>Furcaspis</u>	<u>biformis</u>	(Cockerell)	2
<u>Furchadaspis</u>	<u>zamia</u>	(Morgan)	2
<u>Hemiberlesia</u>	<u>latanae</u>	(Signoret)	4
<u>Hemiberlesia</u> (A,BC,O)	<u>popularum</u>	(Marlatt)	19
<u>Hemiberlesia</u>	<u>rapax</u>	(Comstock)	1
<u>Howardia</u>	<u>biclavis</u>	(Comstock)	2
<u>Ischnaspis</u>	<u>longirostris</u>	(Signoret)	5
<u>Lepidosaphes</u>	<u>beckii</u>	(Newman)	7
<u>Lepidosaphes</u>	<u>conchiformis</u>	(Gmelin)	1
<u>Lepidosaphes</u>	<u>gloverii</u>	(Packard)	7
<u>Lepidosaphes</u>	<u>machili</u>	(Maskell)	4
<u>Lepidosaphes</u> (BC,O)	<u>ulmi</u>	(Linnaeus)	23
<u>Lindingaspis</u>	<u>rossi</u>	(Maskell)	3
<u>Lineaspis</u>	<u>striata</u>	(Newstead)	1
<u>Morganella</u>	<u>longispina</u>	(Morgan)	1
<u>Mycetaspis</u>	<u>personata</u>	(Comstock)	1
<u>Nuculaspis</u> (BC)	<u>californica</u>	(Coleman)	9
<u>Odonaspis</u>	<u>secreta</u>	(Cockerell)	2
<u>Parlatoria</u>	<u>blanchardi</u>	(Targioni Tozzetti)	4
<u>Parlatoria</u>	<u>oleae</u>	(Colvée)	1
<u>Parlatoria</u>	<u>pergandii</u>	Comstock	10
<u>Parlatoria</u>	<u>proteus</u>	(Curtis)	3
<u>Parlatoria</u>	<u>theae</u>	Cockerell	1
<u>Parlatoria</u>	<u>ziziphi</u>	(Lucas)	1
<u>Pinnaspis</u>	<u>aspidistrae</u>	(Signoret)	6
<u>Pinnaspis</u>	<u>buxi</u>	(Bouché)	1
<u>Pinnaspis</u>	<u>strachani</u>	(Cooley)	2

<u>Pseudaonidia</u>	<u>trilobiiformis</u>	(Green)	1
<u>Pseudaulacaspis</u>	<u>inday</u>	(Banks)	1
<u>Pseudaulacaspis</u>	<u>pentagona</u>	(Targioni Tozzetti)	14
<u>Pseudischnaspis</u>	<u>bowreyi</u>	(Cockerell)	1
<u>Pseudoparlatoria</u>	<u>ostreata</u>	Cockerell	1
<u>Pseudoparlatoria</u>	<u>parlatorioides</u>	(Comstock)	1
<u>Quadraspidiotus</u>	<u>forbesi</u>	(Johnson)	6
<u>Quadraspidiotus</u> (BC,O)	<u>juglansregiae</u>	(Comstock)	14
<u>Quadraspidiotus</u> (BC,O,S)	<u>ostreaeformis</u>	(Curtis)	20
<u>Quadraspidiotus</u> (O)	<u>perniciosus</u>	(Comstock)	31
<u>Quernaspis</u>	<u>quercus</u>	(Comstock)	5
<u>Selenaspidus</u>	<u>articulatus</u>	(Morgan)	2
<u>Unaspis</u>	<u>citri</u>	(Comstock)	7
<u>ERIOCOCCIDAE</u>			
<u>Cryptococcus</u> (NB)	<u>fagisuga</u>	Lindinger	2
<u>Cryptococcus</u>	<u>williamsi</u>	Kosztarab & Hale	3 (0)
<u>Eriococcus</u>	<u>araucariae</u>	Maskell	12
<u>Eriococcus</u>	<u>coccineus</u>	(Cockerell)	1
<u>Eriococcus</u> (O,P)	<u>spurius</u>	(Modeer)	9
<u>KERMESIDAE</u>			
<u>Kermes</u>	<u>cockerelli</u>	Ehrhorn	3
<u>Kermes</u>	<u>pettiti</u>	Ehrhorn	3
<u>Kermes</u>	<u>quercus</u>	(Linnaeus)	8
<u>KERRIIDAE</u>			
<u>Austrotachardiella</u>	<u>gemmifera</u>	(Cockerell)	2
<u>LECANODIASPIDIDAE</u>			
<u>Lecanodiaspis</u>	<u>rufescens</u>	(Cockerell)	6
<u>MARGARODIDAE</u>			
<u>Crypticera</u>	<u>rosae</u>	(Riley & Howard)	1
<u>Icerya</u> (M,O)	<u>purchasi</u>	Maskell	11
<u>Matsucoccus</u> (NB,O)	<u>macrociatrices</u>	Richards 1H (7070)	38P
<u>Matsucoccus</u> (BC)	<u>seiretus</u>	Knappich	5

<u>Neosteingelia</u>	<u>texana</u>	Morrison	1
<u>Steingelia</u>	<u>gorodetskia</u>	Nassanov	6 (Q)
<u>Xylococcus</u> (NB, NS, P)	<u>betulae</u>	(Pergande)	21
ORTHEZIIDAE			
<u>Arctorthezia</u>	<u>cataphracta</u>	(Olafsen)	4 (A)
<u>Arctorthezia</u> (BC)	<u>occidentalis</u>	(Douglas)	10
<u>Newsteadia</u>	<u>americana</u>	Morrison	8 (O)
<u>Orthezia</u>	<u>insignis</u>	Browne	1
<u>Orthezia</u> (BC)	<u>olivacea</u>	Cockerell	4
<u>Orthezia</u>	<u>praelonga</u>	Douglas	1
PSEUDOCOCCIDAE			
<u>Amonostherium</u>	<u>lichtensiodes</u>	(Cockerell)	1
<u>Anisococcus</u> (BC)	<u>quercus</u>	(Ehrhorn)	1
<u>Antonina</u>	<u>crawi</u>	(Cockerell)	2
<u>Antonina</u>	<u>pretiosa</u>	Ferris	1
<u>Chaetococcus</u>	<u>bambusae</u>	(Maskell)	1
<u>Chorizococcus</u> (NWT)	<u>altoarcticus</u>	(Richards) 1H (3477)	60P
<u>Dysmicoccus</u>	<u>boninsis</u>	(Kuwana)	1
<u>Dysmicoccus</u>	<u>brevipes</u>	(Cockerell)	9
<u>Dysmicoccus</u>	<u>cuspidatae</u> (= <u>wistariae</u> )	(Rau)	1P
<u>Dysmicoccus</u>	<u>ryani</u>	(Coquillett)	1
<u>Dysmicoccus</u>	<u>wistariae</u>	(Green)	1
<u>Ehrhornia</u>	<u>cupressi</u>	(Ehrhorn)	3
<u>Ferrisia</u>	<u>virgata</u>	(Cockerell)	3
<u>Nipaecoccus</u>	<u>aurilanus</u>	(Maskell)	1
<u>Nipaecoccus</u>	<u>nipae</u>	(Maskell)	7
<u>Phenacoccus</u> (BC, NS, O, P)	<u>aceris</u>	(Signoret)	30
<u>Phenacoccus</u>	<u>dearnessi</u>	King	1 (M)
<u>Phenacoccus</u>	<u>gossypii</u>	Townsend & Cockerell	1
<u>Phenacoccus</u>	<u>solani</u>	Ferris	1
<u>Phenacoccus</u>	undetermined		9

<u>Planococcus</u>	<u>citri</u>	(Risso)	20
<u>Pseudococcus</u>	<u>affinis</u>	(Maskell)	7
<u>Pseudococcus</u>	<u>calceolariae</u>	(Maskell)	1
<u>Pseudococcus</u> (BC,O)	<u>comstocki</u>	(Kuwana)	18
<u>Pseudococcus</u>	<u>longispinus</u>	(Targioni Tozzetti)	7
<u>Pseudococcus</u> (BC,NS,O,Q)	<u>maritimus</u>	(Ehrhorn)	25
<u>Puto</u>	<u>bryanthi</u>	Ferris	1 (Y)
<u>Puto</u> (BC)	<u>cupressi</u>	(Coleman)	9
<u>Puto</u>	<u>mexicanus</u>	(Cockerell)	1
<u>Puto</u>	<u>yuccae</u>	(Coquillett)	1
<u>Rhizoecus</u>	<u>cacticans</u>	(Hambleton)	3
<u>Rhizoecus</u>	<u>cyperalis</u>	(Hambleton)	3
<u>Rhizoecus</u>	<u>dianthi</u>	(Green)	2
<u>Rhizoecus</u>	<u>falcifer</u>	Kunckel d' Herculais	4
<u>Rhizoecus</u>	undetermined		17
<u>Saccharicoccus</u>	<u>sacchari</u>	(Cockerell)	1
<u>Spilococcus</u>	<u>eriongoni</u>	(Ehrhorn)	1

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## CHRISTMAS SONG OF THE SCALE

Under the white wax of Christmas,  
I long for the sap flow of Spring,  
Under the white wax of Christmas,  
I huddle and cuddle and sing.

I and my friends all about me,  
Are waiting for warm days to come,  
Although the harsh wind's ablowing,  
We're asnug and acovered at home.

-----Original lyrics by Steve Bullington  
Christmas 1986



-----Original music by Mary Rhoades  
Christmas 1986